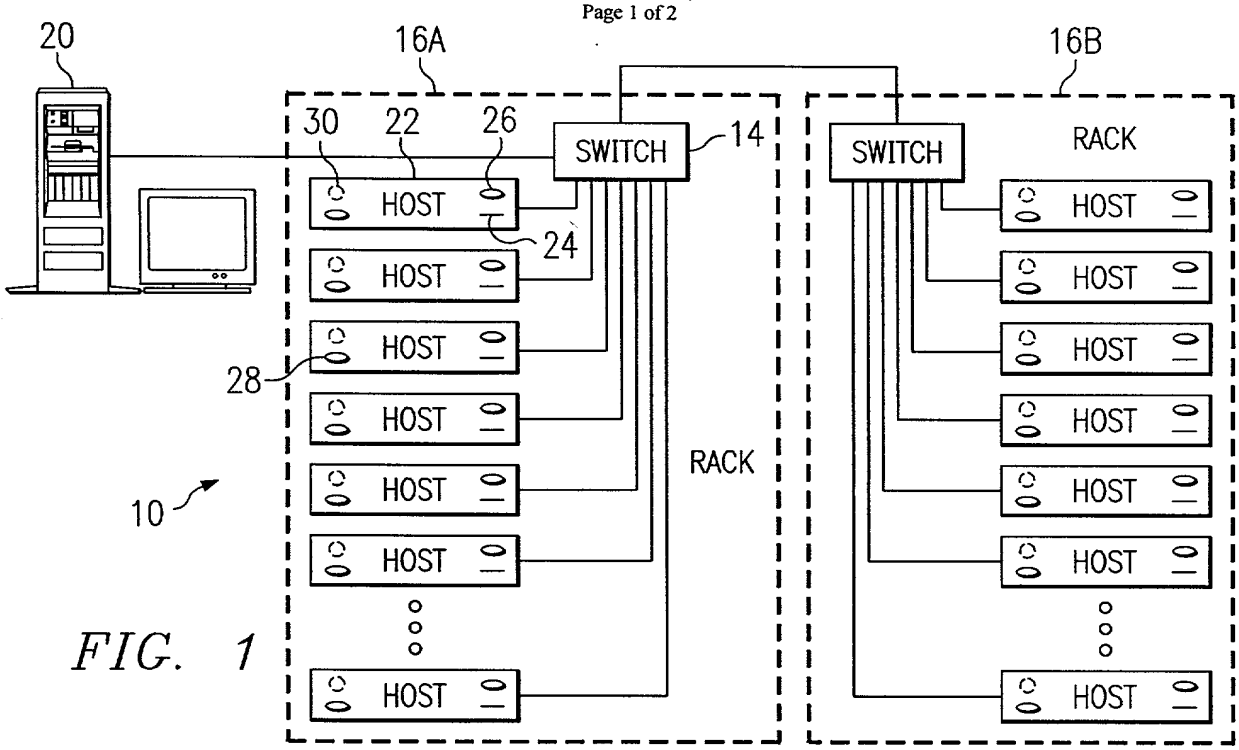

FIG. 1

100

Host–Name Seed

Cluster Name	Tango
High–Level Root	R
High–Level Index	1
Low–Level Root	S
Low–Level Index	1

FIG. 2A

Host–Name Seed

Cluster Name	Tango
High–Level Root	R
High–Level Index	1
Low–Level Root	S
Low–Level Index	33

FIG. 2B

Host–Name Seed

Cluster Name	Tango
High–Level Root	R
High–Level Index	2
Low–Level Root	S
Low–Level Index	1

FIG. 2C

110

Host–Name Table

UID	Name
Z74X345	
Z74X6W2	
Z74X771	
⋮	⋮
Z74X2C1	
Z74X1S2	
⋮	⋮
Z74X333	

FIG. 3A

Host–Name Table

UID	Name
Z74X345	TangoR1S1
Z74X6W2	TangoR1S2
Z74X771	TangoR1S3
⋮	⋮
Z74X2C1	TangoR1S32
Z74X1S2	
⋮	⋮
Z74X333	

FIG. 3B

Host–Name Table

UID	Name
Z74X345	TangoR1S1
Z74X6W2	TangoR1S2
Z74X771	TangoR1S3
⋮	⋮
Z74X2C1	TangoR1S32
Z74X1S2	TangoR2S1
⋮	⋮
Z74X333	TangoR2S32

FIG. 3C

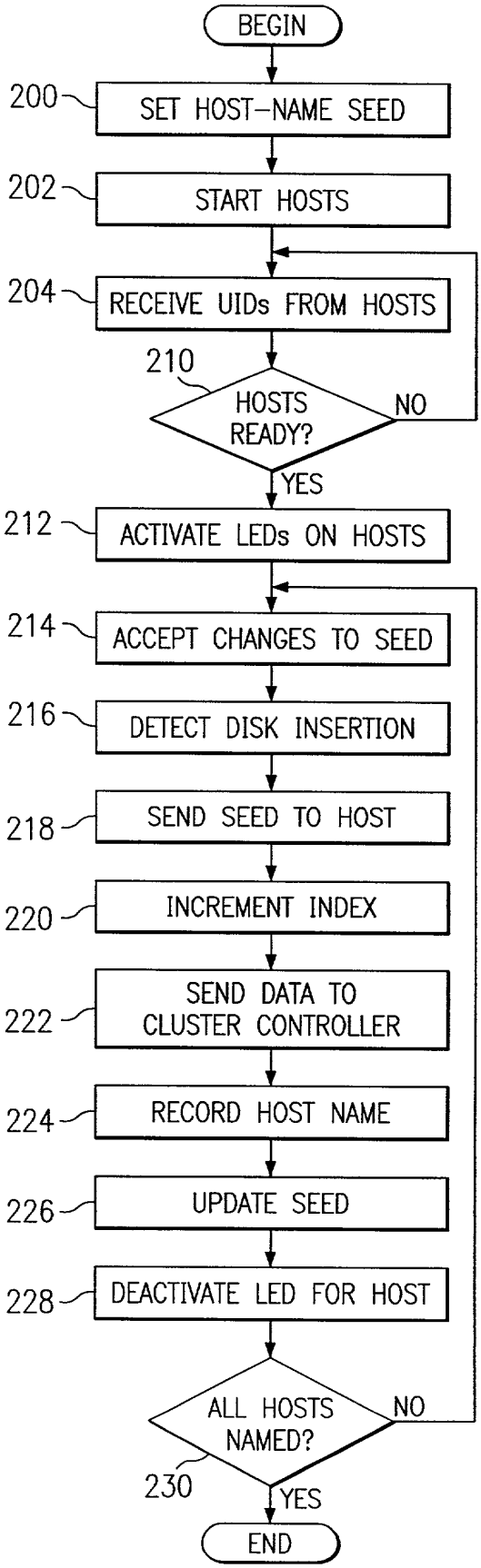
BEGIN
200
SET HOST-NAME SEED
202
START HOSTS
204
RECEIVE UIDs FROM HOSTS
210
HOSTS READY?
NO
YES
212
ACTIVATE LEDs ON HOSTS
214
ACCEPT CHANGES TO SEED
216
DETECT DISK INSERTION
218
SEND SEED TO HOST
220
INCREMENT INDEX
222
SEND DATA TO CLUSTER CONTROLLER
224
RECORD HOST NAME
226
UPDATE SEED
228
DEACTIVATE LED FOR HOST
ALL HOSTS NAMED?
NO
230
YES
END

FIG. 4